

RECEIVED CENTRAL FAX CENTER APR 2 5 2006

Grant Prideco, L.P. 400 N. Sam Houston Parkway East Suite 900

Houston, TX 77060.

Phone: (281) 878-5655

Fax: (281) 878-5720

BEST AVAILABLE COPY

7:59

Jayne Sippl

Intellectual Property Administrator

#### FAX COVER SHEET

Date:	Apr 25, 2006			
To:	USPTO	From:	Jayne Sippl	
		Phone:	(281) 878-5655	
Fax:	571.273.8300	Mobile:		
Phone:		Fax:	(281) 878-5720	

Number of pages including cover sheet: 14

IDS for 10/710,769

The Commissioner is hereby authorized to charge any additional fees that may be required at any time during the prosecution of this application without specific authorization, or credit any overpayment, to Deposit Account No. 180584.

66.0074

This facsimile and the information contained in it and attached to it is the property of Grant Prideco, Inc. and/or its subsidiaries and is confidential, intended for the addresses only. If you are not the addresses or one authorized by the addresses to receive this facsimile, you are requested not to use, copy or disseminate the information, and to notify the sender immediately of its receipt by collect telephone and return it by regular mall to the address shown above.

### BEST AVAILABLE COPY

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Hall, et al.

Serial No.:

10/710,769

Filed:

August 2, 2004

For:

Downhole Drilling Network Using

Burst Modulation Techniques

Art Unit:

2632

RECEIVED

Examiner:

CENTRAL FAX CENTER

APR 2 5 2006

Docket No.:

66,0074

April 25, 2006

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

CERTIFICATE OF MAILING 37 C.F.R. 1.10

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail addressed to: Commissioner for Patents, P.O. Box 1450, Alexandris, VA 22313-1450 or via facsimile on the date indicated below.

4/25/06

9/23/05 Date

Signature

VIA FAX: (571) 273-8300

### INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §§ 1.97 and 1.98

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the references listed on the attached Form PTO/SB/08A be considered by the Examiner and made of record.

In accordance with 37 C.F.R. § 1.97(g), this Information Disclosure Statement is not to be construed as a representation that a search has been made or that no other possibly material information as defined 37 C.F.R. § 1.56(b) exists. Furthermore, pursuant to 37 C.F.R. § 1.97(h), the filing of this statement shall not be construed to be an admission that the information cited in the statement is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

# BEST AVAILABLE COPY

This Information Disclosure Statement is filed in accordance with 37 C.F.R. 1.97 (b). No fees are deemed to be due at this time, but please charge any additional fees that may be required at any time during the prosecution of this application without specific authorization, or credit any overpayment, to Deposit Account No. 180584. If there are any questions concerning the above, please contact the undersigned at (281) 878-5658.

Respectfully submitted

effery E. Daly Reg. No. 44,640 Customer No. 38046

IntelliServ, Inc. 400 N. Sam Houston Parkway E. #900

Houston, TX 77060 281.878.5658 Ph: Fax: 281.878.5720

e-mail: jeff.daly@grantprideco.com

PTC/SB/0BA (04-03)
Approved for use through 04/30/2003. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1985, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

Sheet

#### INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Co.	mplete if Known
Application Number	10/710,769
Filing Date	August 2, 2004
First Named Inventor	Hall, et al.
Art Unit	2632
Examiner Name	
Attorney Docket Number	88.0074

				T DOCUMENTS	
Exeminer Initials*	No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevan
<del></del>	ļ. —	Number-Kind Code <sup>2 (7 Insur)</sup>			Figures Appear
		<sup>US-</sup> 5,850,369	12/15/1998	Rorden, Louis H., et al	
		<sup>US-</sup> 6,392,317 B1	5/21/2002	Hall, David R., et al	
i		<sup>US-</sup> 6,657,551 B2	12/2/2003	Huckaba, Bruce S., et al	
		<sup>US-</sup> 6,670,880 B1	12/30/2003	Hail, David R., et al	
		<sup>US-</sup> 6,717,501 B2	4/6/2004	Hall, David R., et al	
	}	<sup>US-</sup> 6,735,633 B1	5/11/2004	Welch, William, et al	
		US- 6,763,391 B1	7/13/2004	Ludike, Aaron	
:		<sup>US-</sup> 6,799,632 B2	10/5/2004	Hall, David R., et al	
;	•	<sup>US-</sup> 6,816,456 B1	11/9/2004	Tse-Au, Elizabeth Suet Hing	
		<sup>US-</sup> 6,820,117 B1	11/16/2004	Johnson, Christopher L.	
		US- 6,821,147 B1	11/23/2004	Hall, David R., et al	
;		<sup>US-</sup> 6,830,467 B2	12/14/2004	Hall, David R., et al	
		<sup>US-</sup> 6,842,469 B1	1/11/2005	Drwięga, Tadeusz J., et al	
		<sup>US-</sup> 6,844,498 B2	1/18/2005	Hall, David R., et al	
:		<sup>∪8</sup> - 6,888,473 B1	5/3/2005	Hall, David R., et al	
		<sup>US-</sup> 6,913,093 B2	7/5/2005	Hall, David R., et al	
		<sup>US-</sup> 6,929,493 B2	8/16/2005	Hall, David R., et al	
		<sup>US-</sup> 6,931,011 B2	8/16/2005	Giacopelli, James N., et al	
		<sup>US-</sup> 6,945,802 B2	9/20/2005	Hall, David R., et al	

	FOREIGN PATENT DOCUMENTS								
Examiner City Initiate No.	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages					
		Country Code <sup>3</sup> "Number <sup>4</sup> "Kind Code <sup>3</sup> (if knumm)	MRM-DD-YYYY		Or Relevent Figures Appear	T°			
					1				
į				•					
:					·				
					:				

Expendmen		•		Date	•	
Signature	•		•	Considered		
. 7				, ,	•	 

EXAMINER: initial if reference considered, whether or not creation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered, include copy of this form with next communication to applicant, "Applicant's unique citation designation number (optional). "See Kinds Codes of USPTO, Patent Documents at <a href="https://www.uspto.gog">www.uspto.gog</a> or MPEP 801.04. "Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). "For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. "Vind of document by the appropriate symbols as known as the document under WIPO Standard ST.16 if possible." Applicant is to place a check mark here if English language Translation is attached.

This coffeetion of information is required by \$7 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Comidentiality is governed by \$5 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, OSPTO to precess) an apprication. Commonatory is governed by 39 U.S.C. 122 and 37 CPT 1.14. This constitution is estimated to take a notice to complete including gethering, preparing, and submitting the completed application for the USPTO. Time will vary depending upon the inclividual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief information Officer, U.S. Petent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in complating the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Sheet

### BEST AVAILABLE COPY

Approved for use through 04/30/2003, OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Papprovork Reduction Act of 1985, no patenn are required to respond to a collection of information unless it contains a valid OMB control number. Substitute for form 1449/PTO

#### INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Fax: 281-8785720

(Use as many shoots as necessary)

Co	mplete if Known
Application Number	10/710,769
Filing Date	August 2, 2004
First Named Inventor	Hail, et al.
Art Unit	2632
Examiner Name	
Attorney Docket Number	86 0074

Examiner	Cite	Description	U. S. PATEN	T DOCUMENTS	
Initials*	No.	Document Number  Number-Kind Code <sup>2 (f known)</sup>	Publication Date MM-DD-YYYY	Name of Patentae or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant
<del>:                                    </del>	<b></b>	US- DOD SOOD			Figures Appear
!		US-20050236160 A1	10/27/2005	Hall, David R., et ai	·
		<sup>US-</sup> 20050212530 A1	9/29/2005	Hell, David R., et al	
		US-20050173128 A1	8/11/2005	Hall, David R., et al	
	,	US-20050161215 A1	7/28/2005	Hall, David R., et al	
		US- 20050150653 A1	7/14/2005	Hall, David R., et al	
		US-20050145406 A1	7/7/2005	Hall, David R., et al	
		<sup>US-</sup> 20050118848 A1	7/2/2005	Hall, David R., et al	
		<sup>US-</sup> 20050115717 A1	7/2/2005	Hall, David R., et al	
,		<sup>US-</sup> 20050095827 A1	5/5/2005	Hall, David R., et al	
		<sup>US-</sup> 20050093296 A1	5/5/2005	Hall, David R., et al	
		<sup>US-</sup> 20050092499 A1	5/5/2005	Hall, David R., et al	
		US- 20050082092 A1	4/21/2005	Hall, David R., et al	
		US-20050070144 A1	3/31/2005	Hall, David R., et al	
		<sup>US-</sup> 20050067159 A1	3/31/2005	Hall, David R., et al	
		US- 20050046590 A1	3/3/2005	Hall, David R., et al	
		US- 20050046586 A1	3/3/2005	Hall, David R., et al	
		<sup>ÚS-</sup> 20050045339 A1	3/3/2005	Hall, David R., et al	
		<sup>US-</sup> 20050039912 A1	2/24/2005	Hall, David R., et al	
T		US- 20050036507 A1	2/17/2005	Hall, David R., et al	

		FOREIGN	LPATENT DOCU	MENTS		
Examiner Cite Initiats No.1	No.1	Foreign Patent Document	Publication . Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines,	T
		Country Code <sup>2</sup> Number <sup>4</sup> 'Kind Code <sup>5</sup> (8 known)	MM-DD-YYYY	Applicant of Office poermant	Where Refevant Passages Or Relevant Figures Appear	T
				<del>.</del> .		m
					· · · · · · · · · · · · · · · · · · ·	押
						T
					·	
		·				Г
	- 1		·			r

Signature Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw time through citation if not in conformance and not considered, include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gog">www.uspto.gog</a> or MPEP 901.04. Enter Office that issued the document, by the two-letter code. (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the sensi number of the patent document. Name of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

Translation is attached.

This 'collection of Information is required by 37 CFR 1.97 and 1.99. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need applications (a completion the form cell 1\_ROLETTL-0109 (1\_ROL\_TO\_100) and acted applies 2.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-788-9199) and select option 2.

Sheet 3

## BEST AVAILABLE CO

PTC/SB/08A (04-03)
Approved for use through 04/30/2003. OMB 0651-0031
U.S. Petent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to reapond to a collection of information unless it contains a valid OMB control number. Complete if Known Substitute for form 1449/PTO

#### INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Application Number 10/710,769 Filing Date August 2, 2004 First Named Inventor Hall, et al. Art Unit 2632 Examiner Name Attorney Docket Number 66.0074

Examiner	Cile	T		T DOCUMENTS	
Examiner Initials*	No.1	Document Number  Number-Kind Code <sup>2 of Incomp</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Citod Document	Pages, Columns, Lines, When Relevant Passages or Relevan Figures Appear
		<sup>US-</sup> 20050035876 A1	2/17/2005	Hall, David R., et al	
		<sup>US-</sup> 20050035875 A1	2/17/2005	Hall, David R., et al	
		<sup>US-</sup> 20050035874 A1	2/17/2005	Hall, David R., et al	
		<sup>US-</sup> 20050001736 A1	1/6/2005	Hall, David R., et al	
		<sup>US-</sup> 20050001735 A1	1/6/2005	Hall, David R., et al	
	_	<sup>US-</sup> 20040246142 A1	12/9/2004	Hall, David R., et al	
		US-20040244964 A1	12/9/2004	Haff, David R., et al	
		<sup>US-</sup> 20040244916 A1	12/9/2004	Hell, David R., et al	
]		US-20040216847 A1	11/4/2004	Hall, David R., et al	
		<sup>US-</sup> 20040164838 A1	8/26/2004	Hall, David R., et al	
		<sup>US-</sup> 20040164833 A1	8/26/2004	Hall, David R., et al	
		US-20040150532 A1	8/5/2004	Hall, David R., et al	
<u>.                                    </u>		US-20040145492 A1	7/29/2004	Hall, David R., et al	
		US- 20040113808 A1	6/17/2004	Hall, David R., et el	
		US-20040104797 A1	6/3/2004	Hall, David R., et al	
·		US- 20050046586 A1	5/6/2004	Hali, David R., et al	
		US- 20040085988 A1	3/3/2005	Gardner, Wallace R., et al	1 .
		<sup>US-</sup> 20030011489 A1	1/16/2003	Viswanathan, Raman	
•		<sup>US-</sup> 20020101359 A1	8/1/2002	Hall, David R., et al	

		FOREI	SN PATENT DOCU	MENTS		
	Cite No.	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines,	П
	Country Code <sup>3</sup> "Number <sup>4</sup> "Idnd Code <sup>6</sup> (F known)	Country Code <sup>3</sup> "Number <sup>4</sup> "  Grid Code <sup>8</sup> (Finnerii)	MM-DD-YYYY	Approximent of the paceting it	Where Relevant Pessages Or Relevant Figures Appear	T <sup>®</sup>
				• • • •		
						Г
			·		·	
·						
- 1						

Examiner Date Signature Considered	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered, include copy of this form with next communication to applicant. "Applicant's unique citation designation number (optional). "See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. "Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). "For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. "Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.18 if possible." Applicant is to place a check mark here if English language.

the appropriate symbols as indicated on the document under virro evaluated of the population of retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentially is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including pethering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select aption 2.

Sheet

### BEST AVAILABLE COPY

Approved for use through 04/30/2003. GMB 0851-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Inder the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of Information unless it contains a yaild OMB control number

Complete if Known Substitute for form 1449/PTO

#### INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Application Number 10/710,789 Filing Date August 2, 2004 First Named Inventor Hall, et al. Art Unit 2632 Examiner Name Attorney Docket Number 68.0074

Examiner	Cite	Document Number	Publication Date	DOCUMENTS	
initials*	No.	Number-Kind Code <sup>2 (7 known)</sup>	MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, When Relevant Passages or Relevan Figures Appear
		<sup>US-</sup> 20040039466	02/26/2004	Lilly et al.	
i		us- 02633414	03/31/1953	Boivinet	
		US- 02982360	05/02/1961	Morton et al.	· · · · · · · · · · · · · · · · · · ·
		US- 05311661	05/17/1994	Zifferer .	
		<sup>US-</sup> 05517843	05/21/1996	Winship	
		US- 20050001738A1	01/06/2005	Hall et al	
	i	ns-			
:		VS-			
		US-	1		
		US-			<del></del>
		us-		·	į.
į		US-			<u> </u>
		US-			
		US-			<del>                                     </del>
		U8-	·		
		US-	†		1

•		FOREIGN	PATENT DOCU	MENTS	;	
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columna, Lines, Where Relevant Passages Or Relevant Figures Appear	· 1*
!		Country Code <sup>2</sup> Number **Kind Code <sup>2</sup> (if known)				
· _						1
						·
į						厂
		· · · · · · · · · · · · · · · · · · ·				П
						$\Box$

				 _	
17.			 	 	٠
Examiner		_		Oate	1
01					ı
8lgnature	•			Considered	ı

"EXAMINER: Initial if reference considered, whether or not clusten is in conformance with MPEP 608. Draw line through Citation if not in conformance and not considered, include capy of this form with next communication to applicant. Applicant's unique clustion designation number (options). See Kinds Codes of USPTD Patent Documents at <a href="https://www.uspto.gog.gor.wipep.901.04">www.uspto.gog.gor.wipep.901.04</a>. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the regner of the Emperor must precase the serial number of the patent document. It kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to piece a check mark here if English language Translation is attached.

Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The Information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentially is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and automitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Officer, U.S. Department of Commence, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9189 (1-800-786-9199) and select option 2.

### BEST AVAILABLE COPY

	r form 1449/P	ТО		L	t and Trademark Office; U.S. DEPARTMENT OF CON of information unless it contains a valid OMB control Complete if Known	number.	
			·	Application Number	10/710,769		
INFUR	(MA IIC	ON DIS	CLOSURE	Fillng Date	August 2, 2004		
SIAII	=MENI	BYA	PPLICANT	First Named Inventor	Hali, et al.		
	(Use as many sheets as necessary)			Art Unit . 2632			
		William of 11	ovestary;	Examiner Name			
Sheet 5		of	5 .	Attorney Docket Number	66.0074		
Ţ					00.007	/	
	P	CT/U803/1647	75, Published 12/04/2003, /	Applicant Baker Hughes; International Se	earch Report: "Documents Considered to Be Relevent"		
	<del></del>			· · · · · · · · · · · · · · · · · · ·	<u> </u>		

<u> </u>		
Examiner		
	Date	
Signature	Considered	
TEVARINED, MENALE AND		

"EXAMINER: tribial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English tanguage Translation is statched. This collection of Information is required by 37 CFR 1.98. The Information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, Including preparing, and authoriting the completed application form to the USPTO. Time will vary depending upon the Individual case. Any comments on the Traderhest Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-788-9199) and select option 2.